

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

يقول الله تعالى:

" قل إن صلاتي ونسكي ومحياي ومماتي لله رب  
العالمين لا شريك له وبذلك أمرت وأنا أول المسلمين "

صدق الله العظيم  
الأنعام - آية 17

## *Dedication*

*To the success of taught me patience  
To those who missed him in the face of  
difficulties*

*Minimum stayed he was fed with affection  
for..... My father ♥♥*

*And to those who are racing to come out  
words expressing the innermost same  
Who taught me and suffered difficulties to get  
to what I am..... My mother ♥♥  
And to all my brothers and my family*

## Acknowledgements

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## **Abstract**

This thesis presents a method for the design of high elevated flat slab formwork. The method defines the primary stages of the design process, determines the detailed procedure within each stage, and identifies the basic data needed for exercising the design.

The proposed method is aimed at producing design solutions that meet both quality and economy criteria. The method used in this thesis was based on designing a program using Microsoft excels software to test flat slab elements of constructing building selected as a case study and the method procedure was done according to the requirements of the (ACI-347) Code.

Carefully the output data from the program were studied and verified to insure about the safety and economics of the proposed formwork for flat slab.

## مستخلص الدراسة

تقدم هذه الأطروحة طريقة لتصميم الفرص الخرسانية لبلاطة مسطحة لمبنى سكنى مكون من أربعة طوابق. تتناول الطريقة المراحل الأولى لعملية التصميم ، بالإضافة للإجراءات المفصلة لكل مرحلة ، وتحدد البيانات الأساسية اللازمه لممارسة التصميم . تهدف الطريقة المقترحة إلى انتاج حلول التصميم التى تلبى كل من متطلبات الجودة والاقتصاد على حد سواء . طريقة التصميم التى إستخدمت فى هذه الأطروحة اعتمدت على عمل برنامج بالإستعانة ببرنامج مايكروسوفت اكسل لاختبار الفرص الخرسانية للبلاطات المسطحة لمبنى تم أخذه كدراسة حالة وجرى خطوات طريقة التصميم وفقاً لمتطلبات المدونة الأمريكية ACI- 347.

تمت دراسة مخرجات البرنامج بعناية والتحقق منها بغرض الوصول إلى ضمان تحقق الأمان والاقتصاد لمقترح الفرص الخرسانية للبلاطات المسطحة .

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